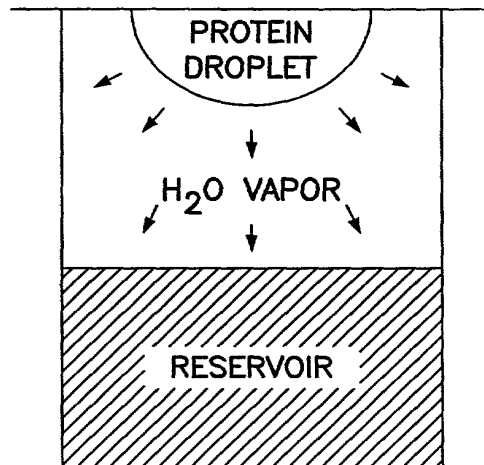
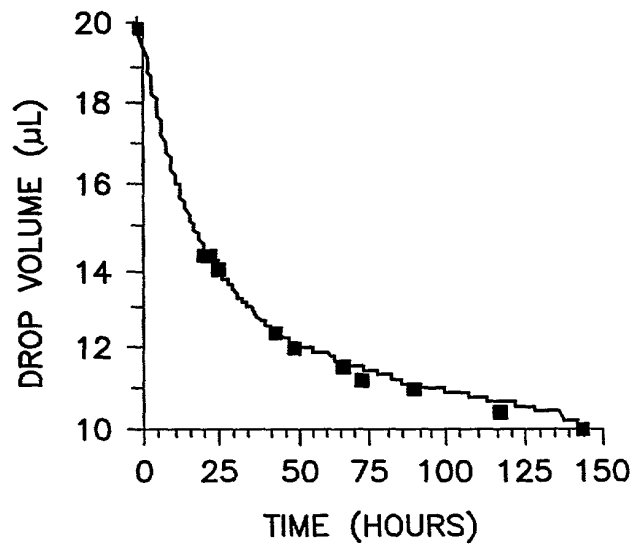


FIG. 1



LINBRO BOX HANGING DROP VAPOR DIFFUSION CHAMBER.

FIG. 2



DROP VOLUME VERSUS TIME FOR A TYPICAL VAPOR DIFFUSION
EXPERIMENT IN A LINBRO BOX.

FIG. 3

N₂-VAPOR DIFFUSION INDUCED CRYSTALLIZATION
BLOCK DIAGRAM FOR DC/PCG

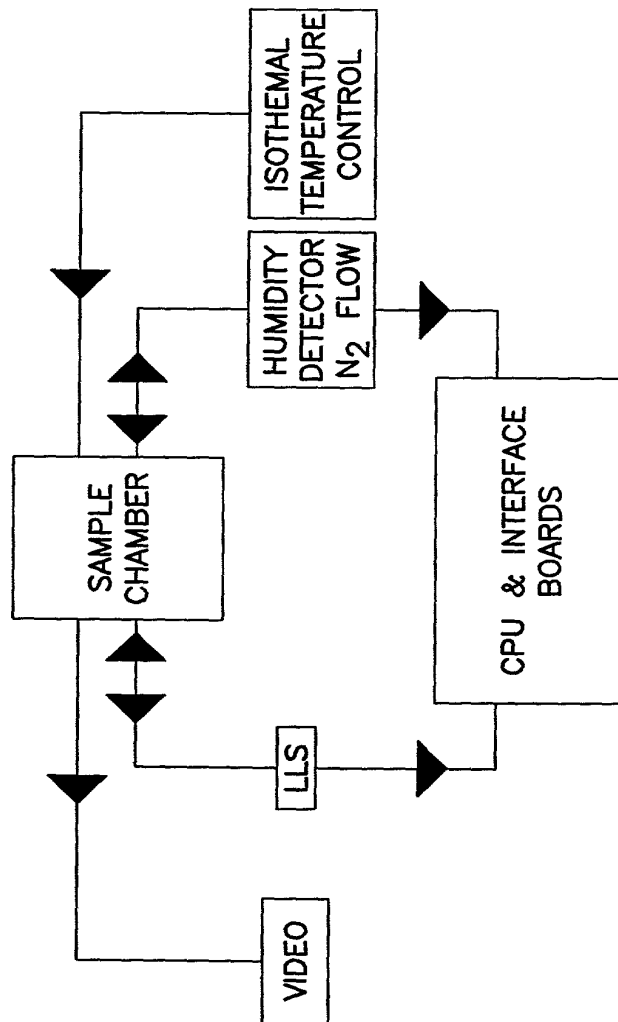
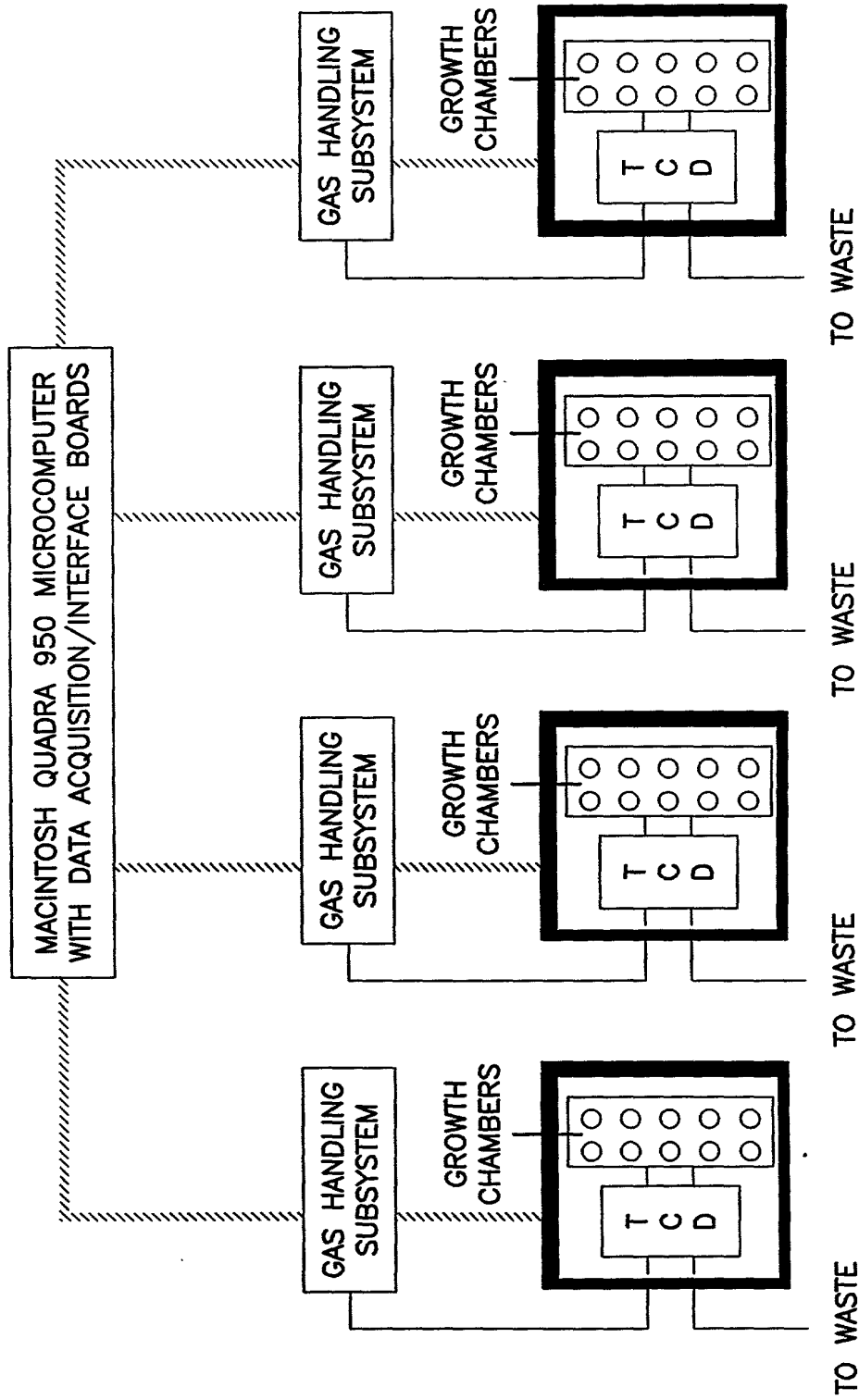


FIG. 4



DYNAMICALLY CONTROLLED VAPOR DIFFUSION SYSTEM.

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FIG. 5

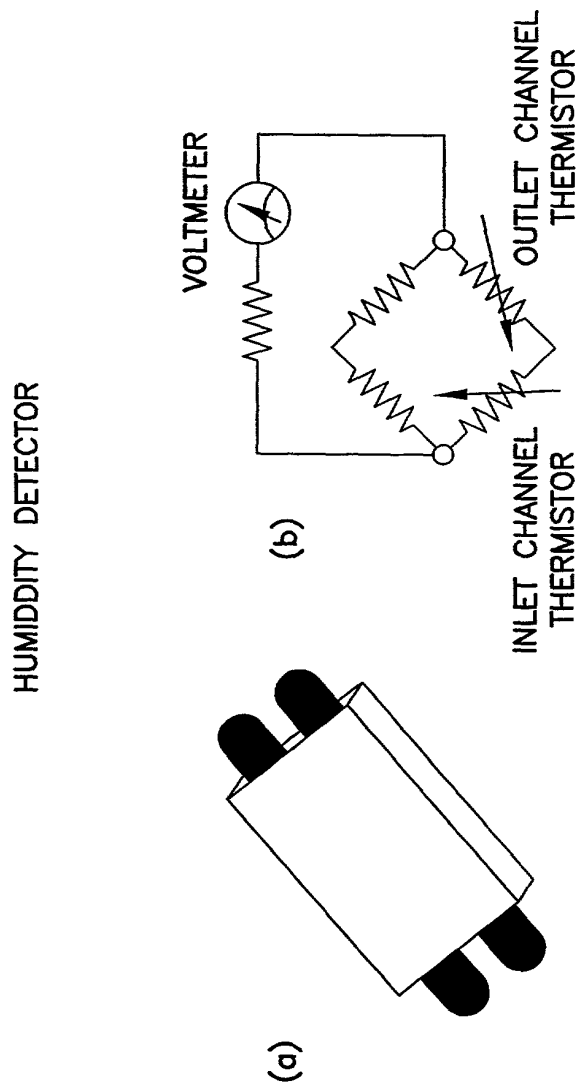


FIG. 6

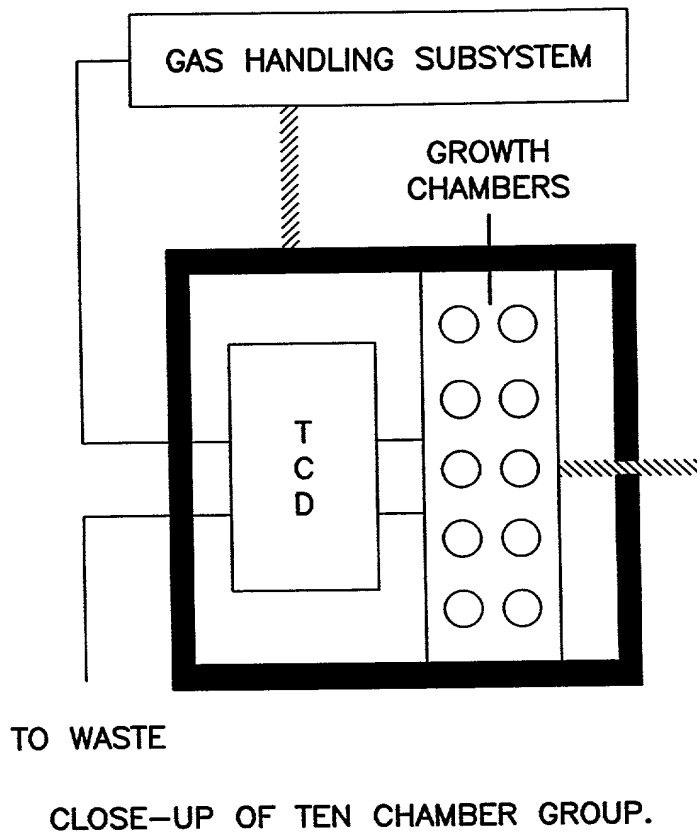


FIG. 7

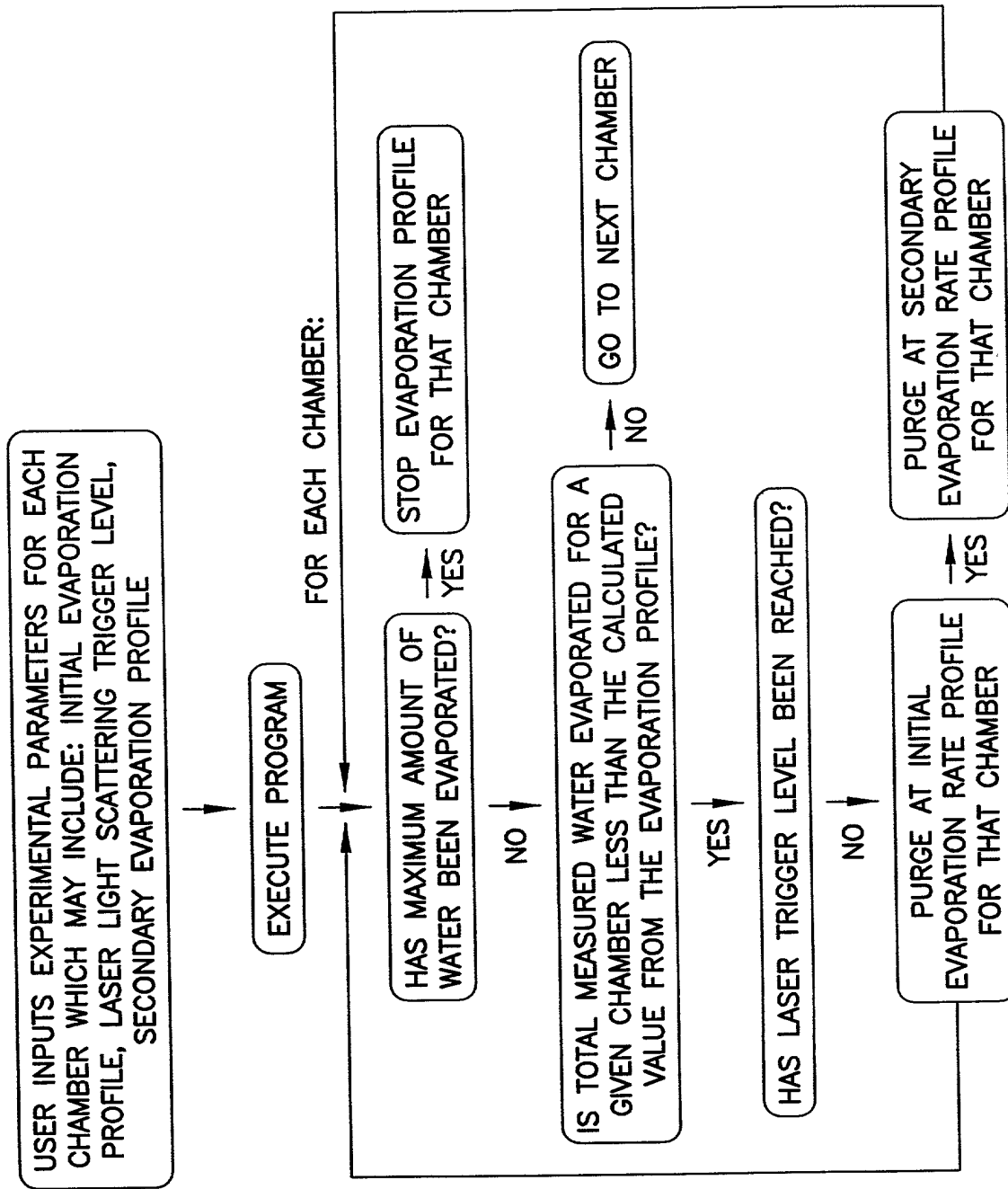
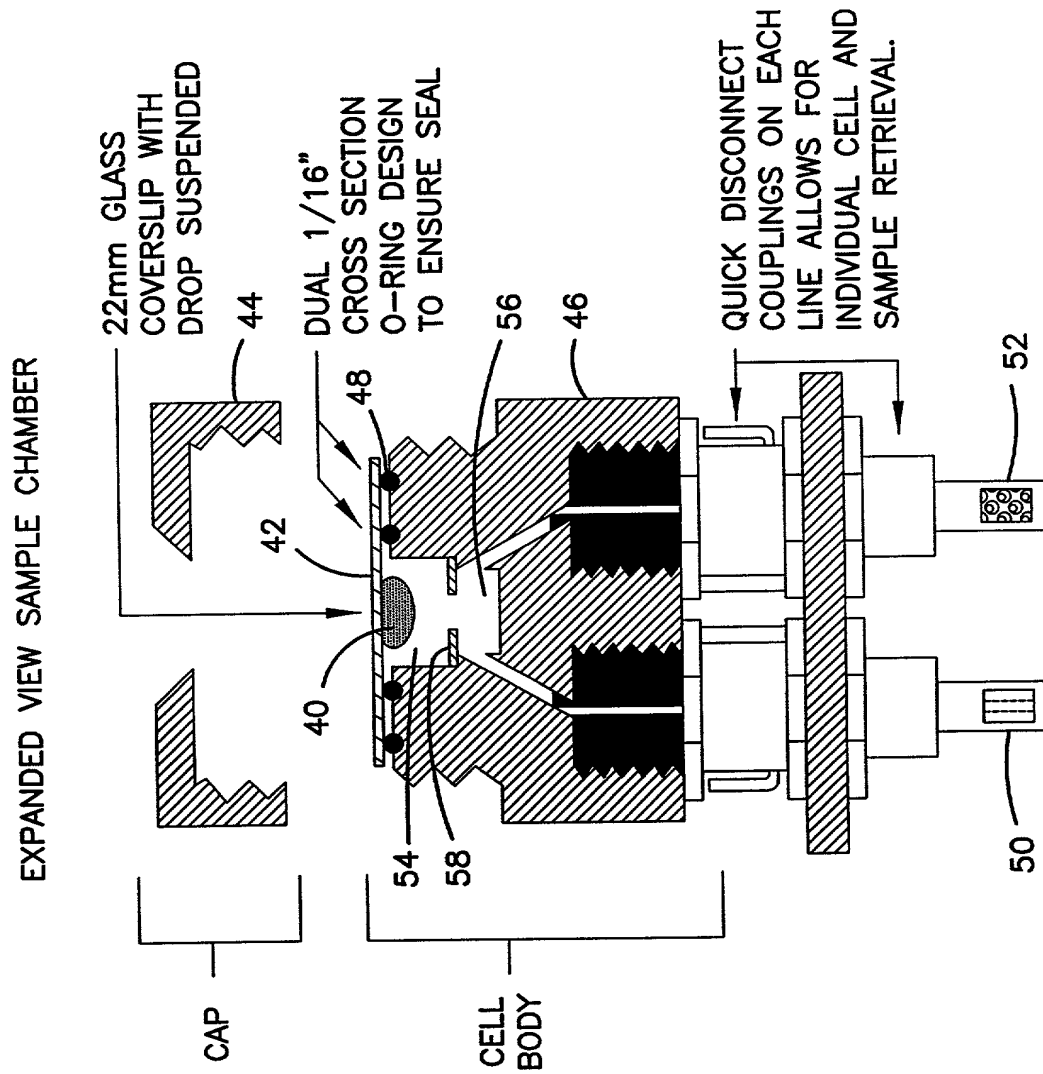


FIG. 8



SIZE AND NUMBER OF MACROCRYSTALS OBTAINED FROM LINEAR EVAPORATION
PROFILES WITH LINBRO CONTROLS

FIG. 9(a)

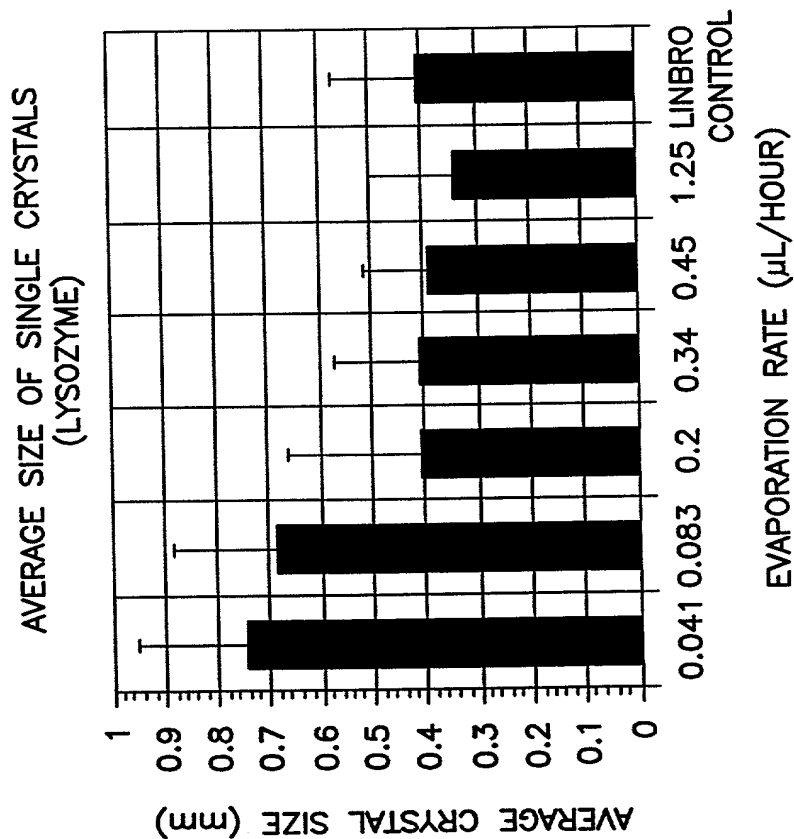
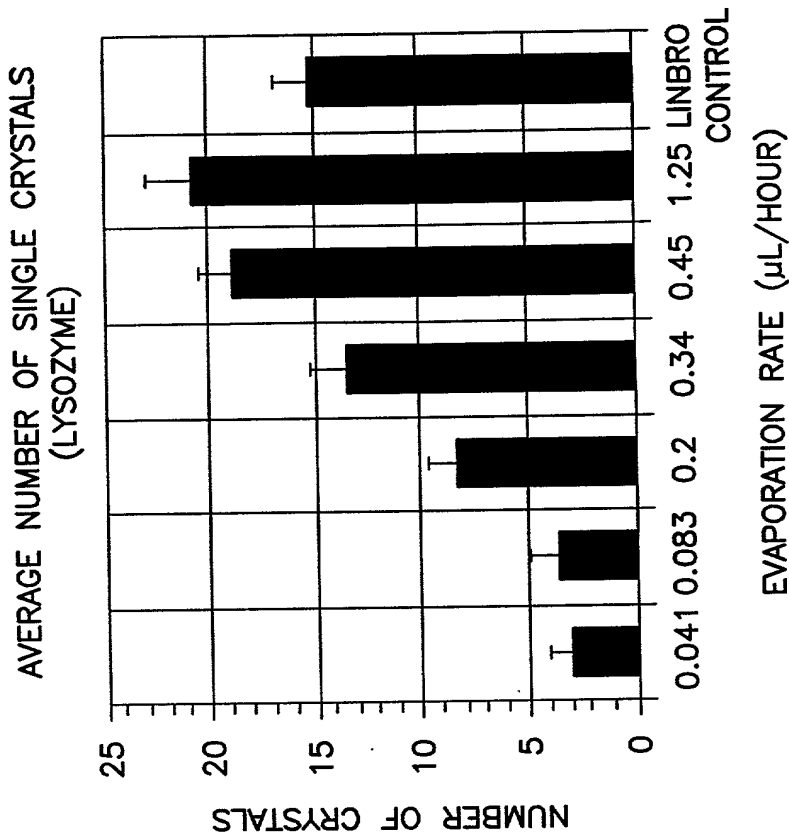


FIG. 9(b)



NOTE: CRYSTAL MEASUREMENTS WERE RECORDED FOR EACH PROFILE
AFTER REACHING IDENTICAL FINAL DROP VOLUMES

SIZE AND NUMBER OF MACROCRYSTALS OBTAINED FROM LINEAR EVAPORATION
PROFILES WITH LINBRO CONTROLS.

FIG. 10(a)

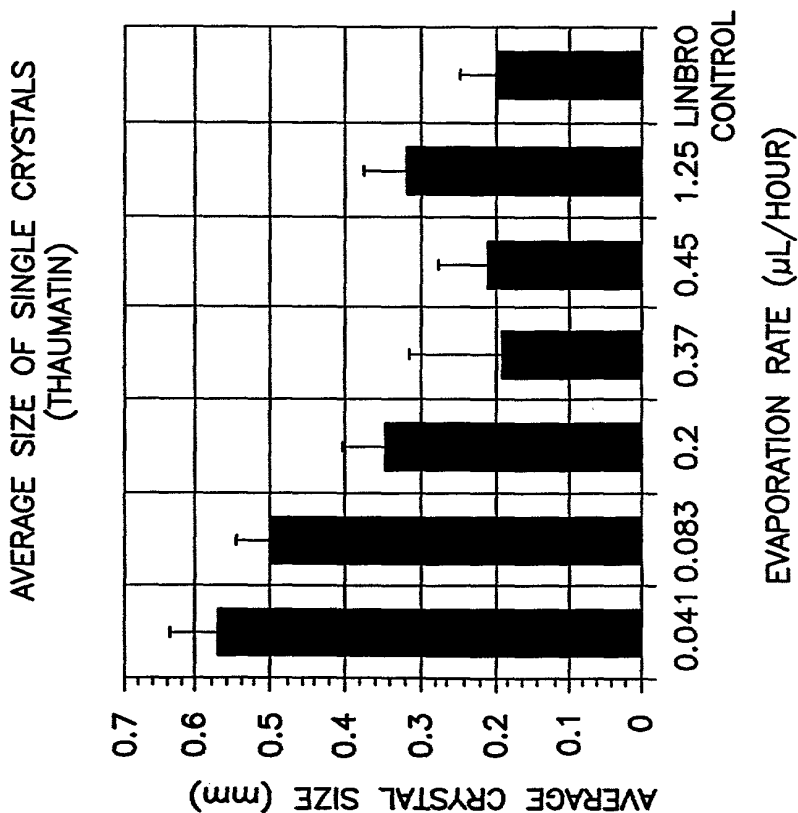
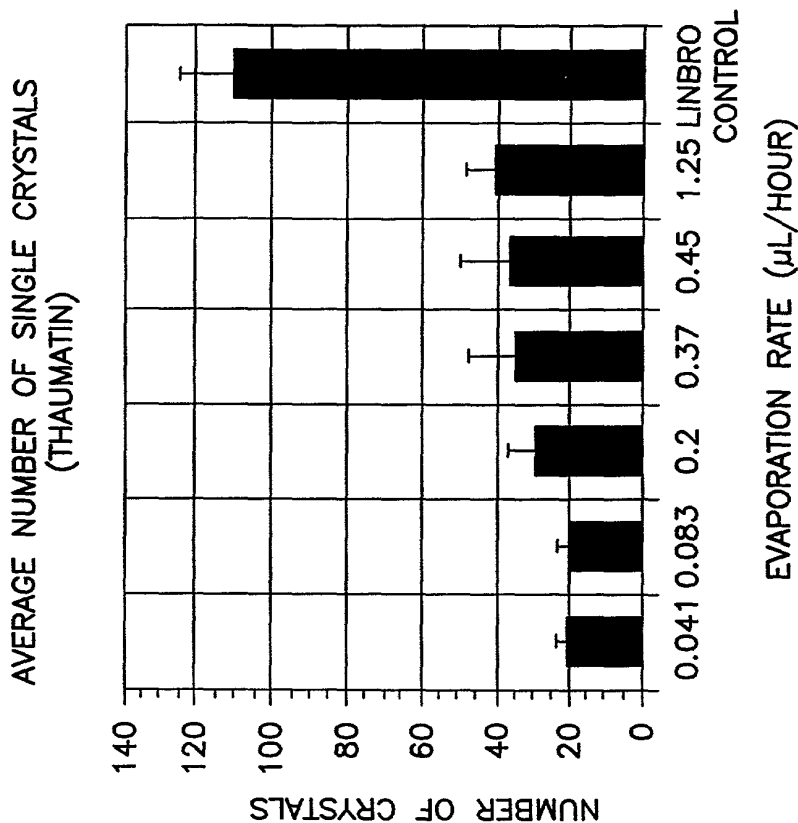
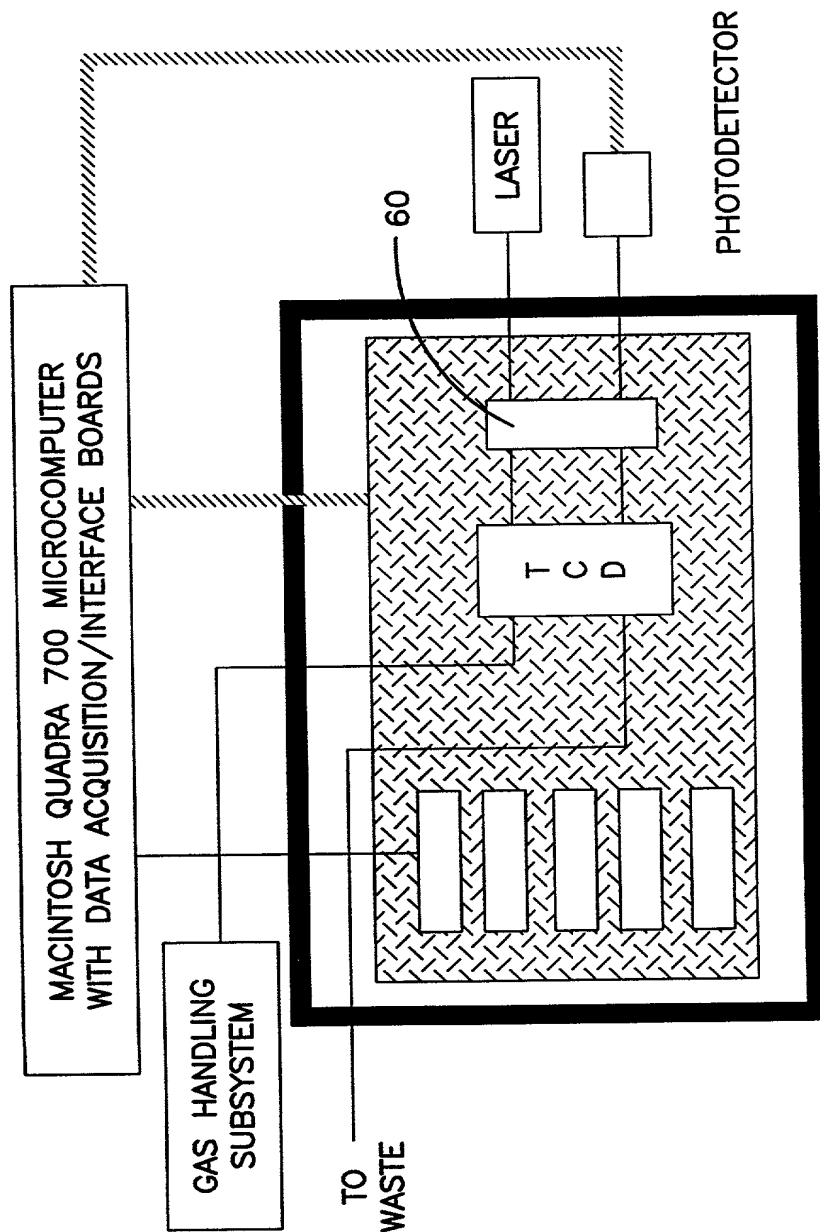


FIG. 10(b)



NOTE: CRYSTAL MEASUREMENTS WERE RECORDED FOR EACH PROFILE
AFTER REACHING IDENTICAL FINAL DROP VOLUMES

FIG. 11



DYNAMICALLY CONTROLLED VAPOR DIFFUSION CONTROL/FOLLOWER SYSTEM.

FIG. 12

DETECTION OF NUCLEATION BY LASER LIGHT SCATTERING AND
RESPONSE BY MODIFYING THE RATE OF INCREASE IN σ .

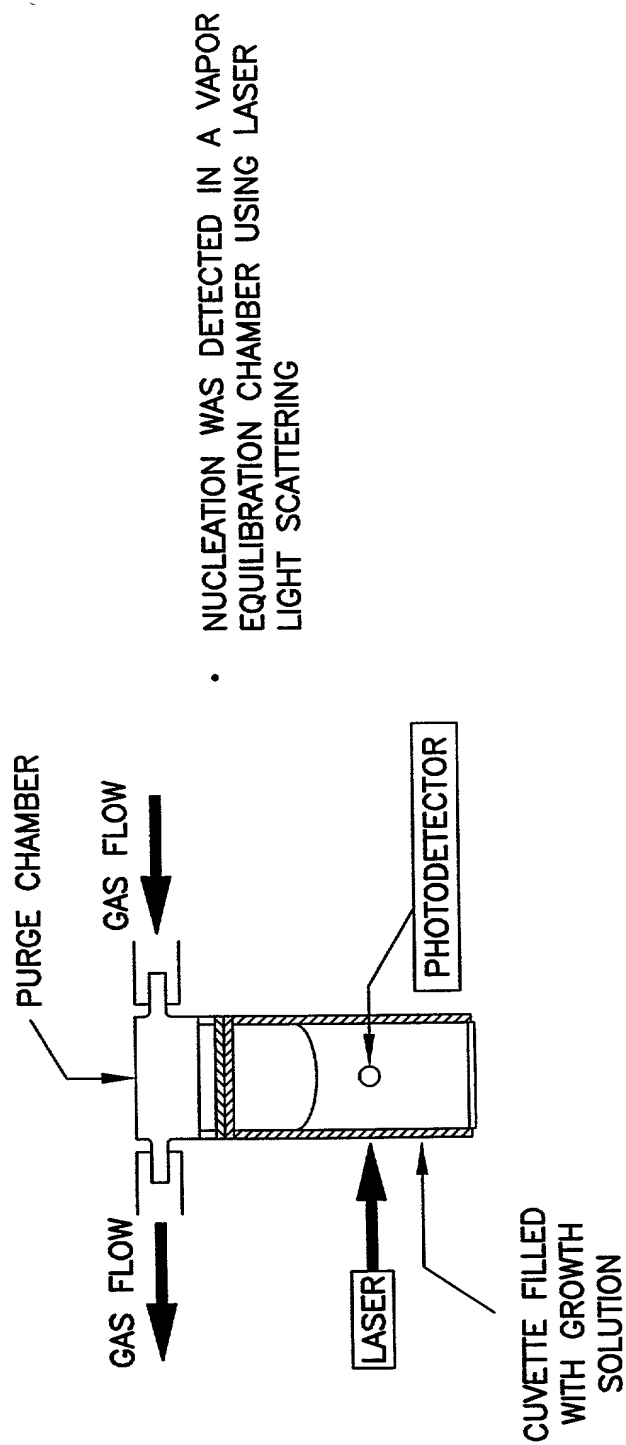
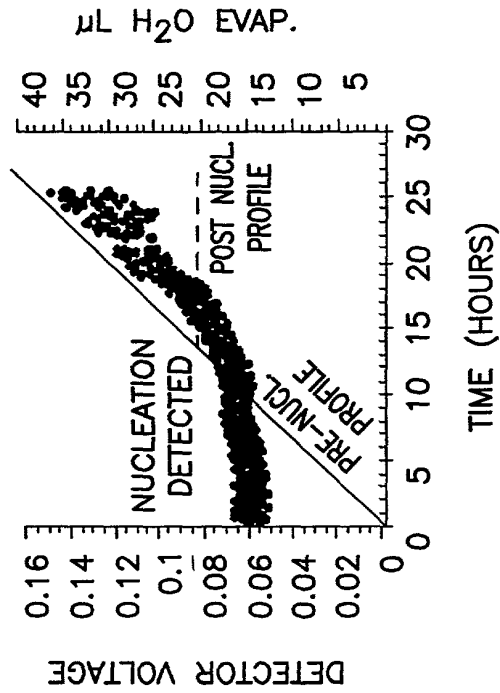


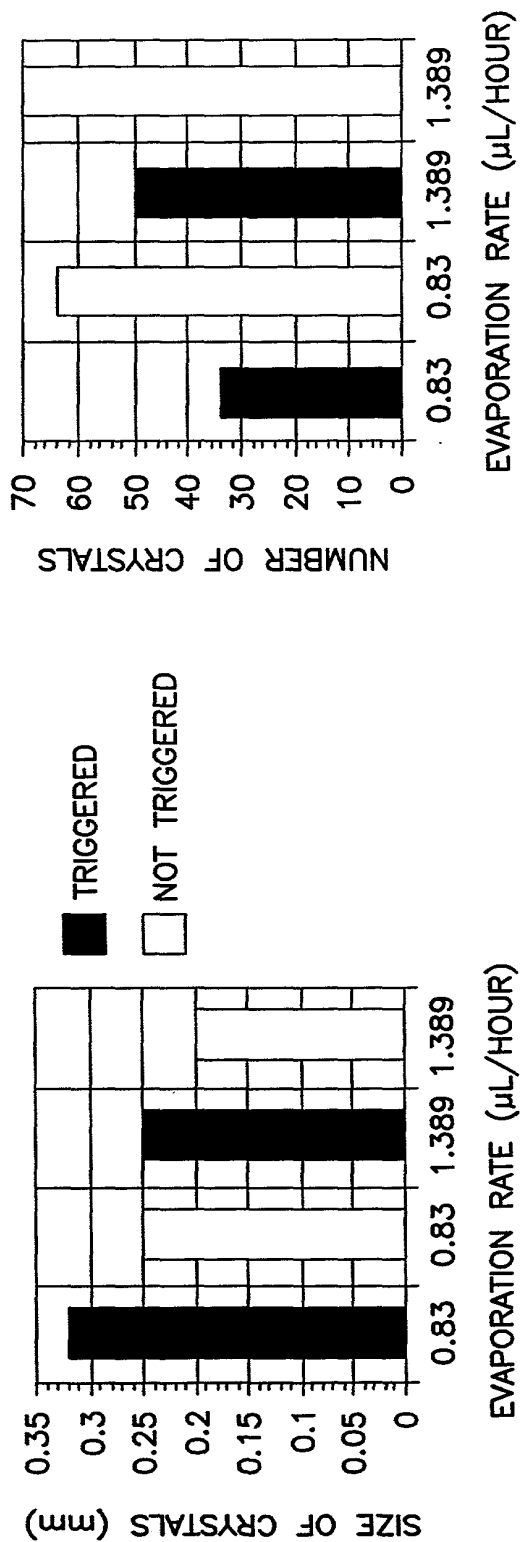
FIG. 13

DETECTION OF NUCLEATION BY LASER LIGHT SCATTERING AND
RESPONSE BY MODIFYING THE RATE OF INCREASE IN σ .



- THE EVAPORATION PROFILE WAS
MODIFIED IN RESPONSE TO
NUCLEATION DETECTION

FIG. 14



LYSOZYME CRYSTAL GROWTH AT DIFFERENT EVAPORATION RATES, TRIGGERED AND NON-TRIGGERED.

FIG. 15

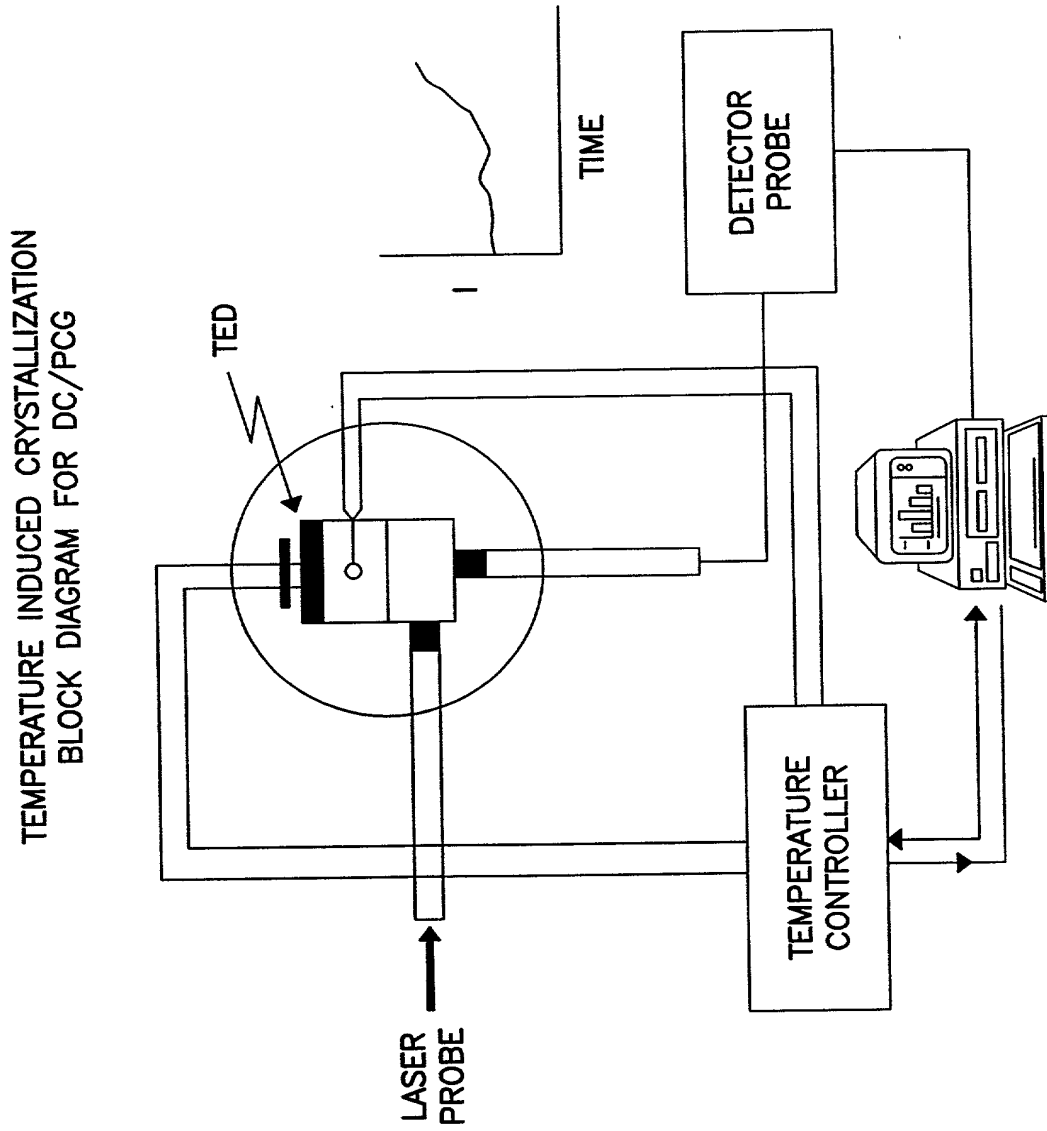


FIG. 16

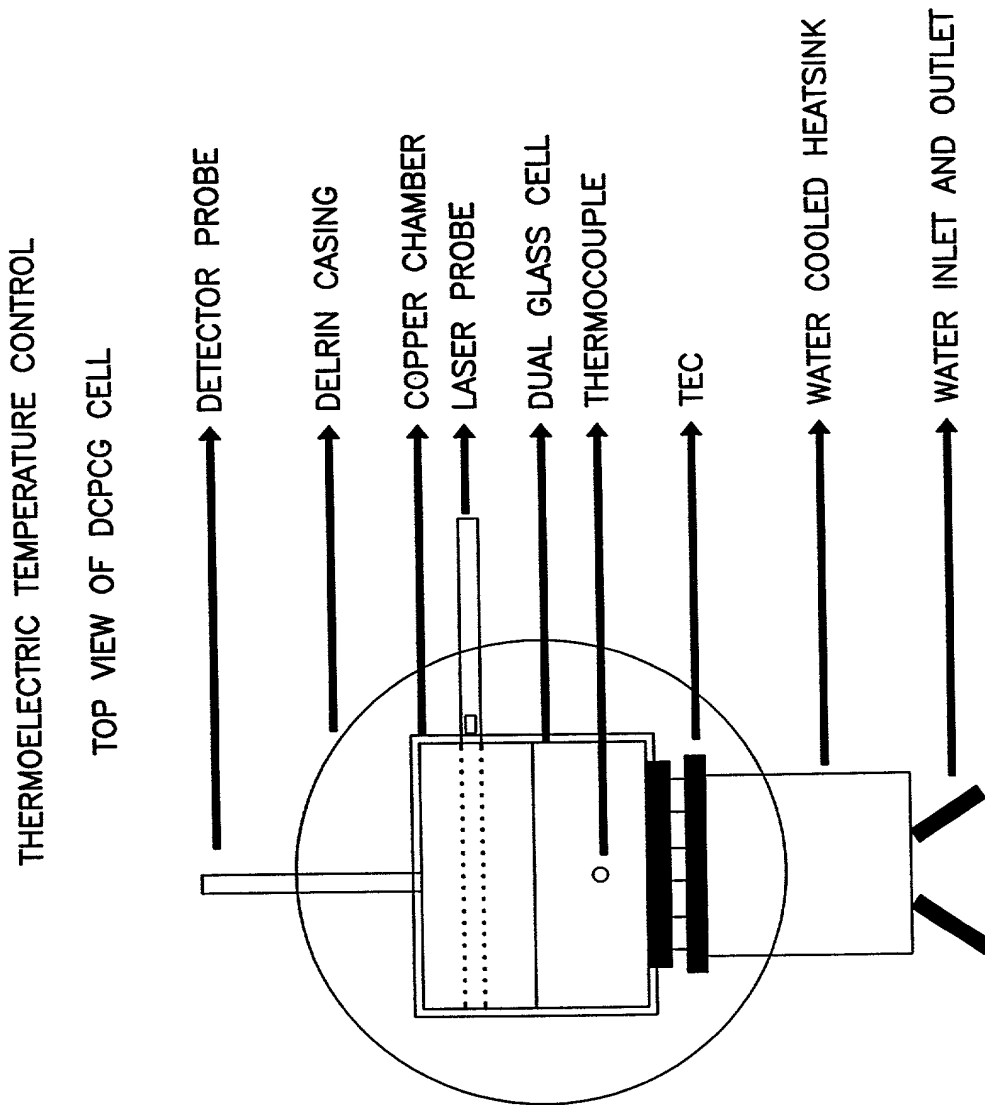
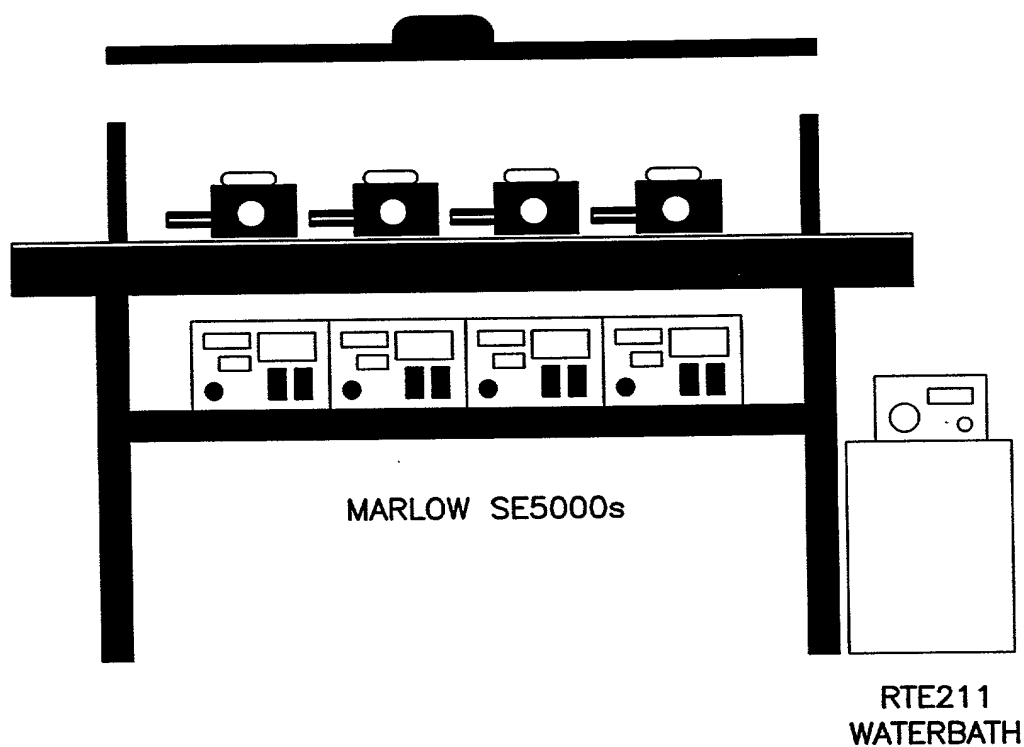
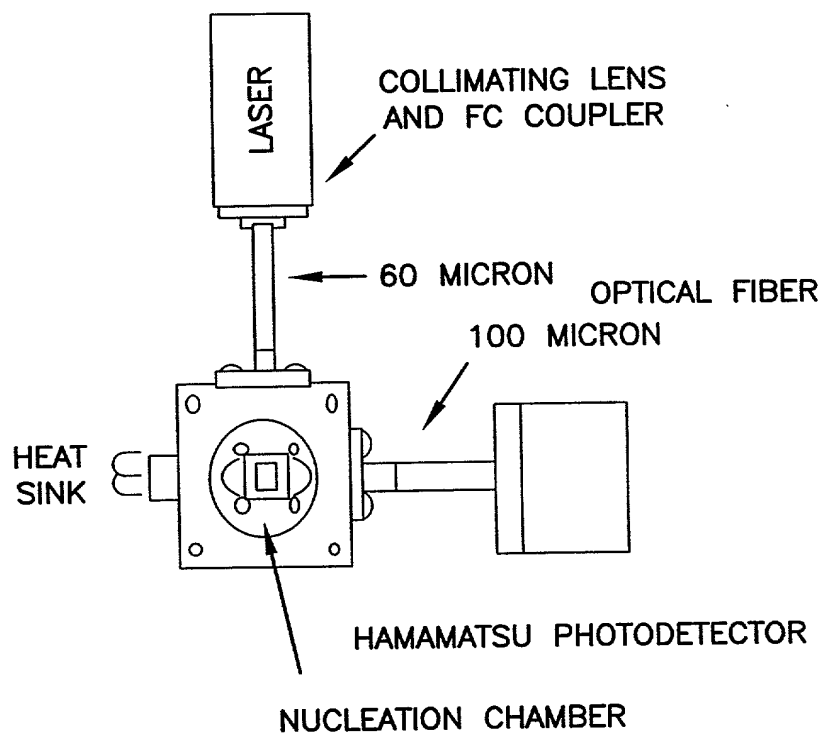


FIG. 17



DYNAMICALLY CONTROLLED TEMPERATURE SYSTEM SCHEMATIC.

FIG. 18



LASER LIGHT SCATTERING SCHEMATIC WITH NUCLEATION CHAMBER.

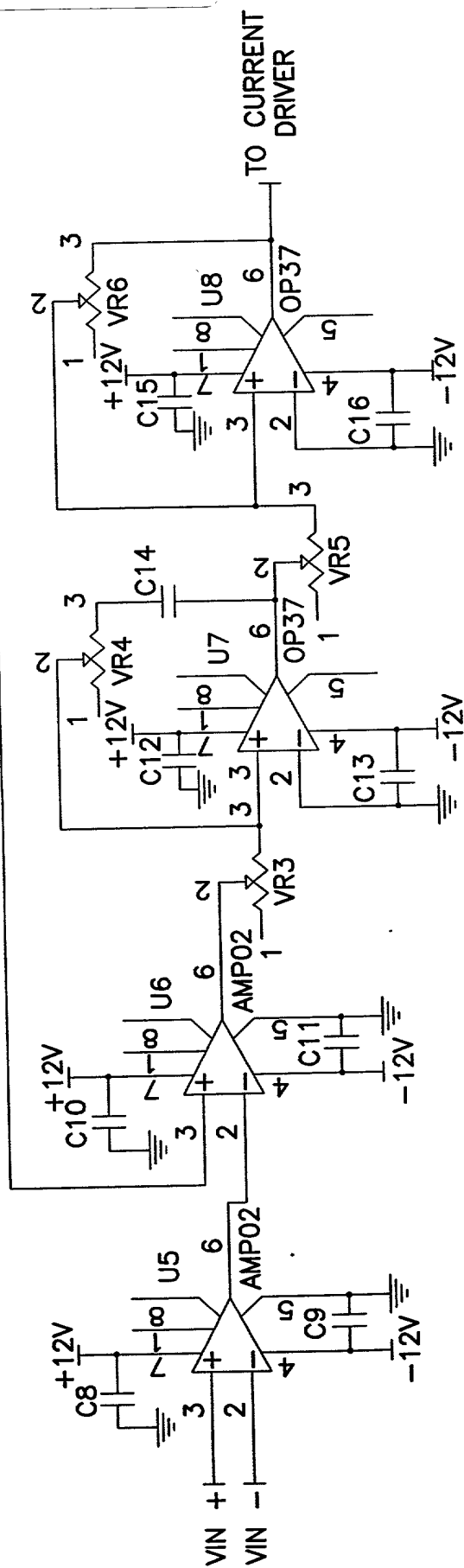
[illegible]

FIG. 19 (CONTINUED)

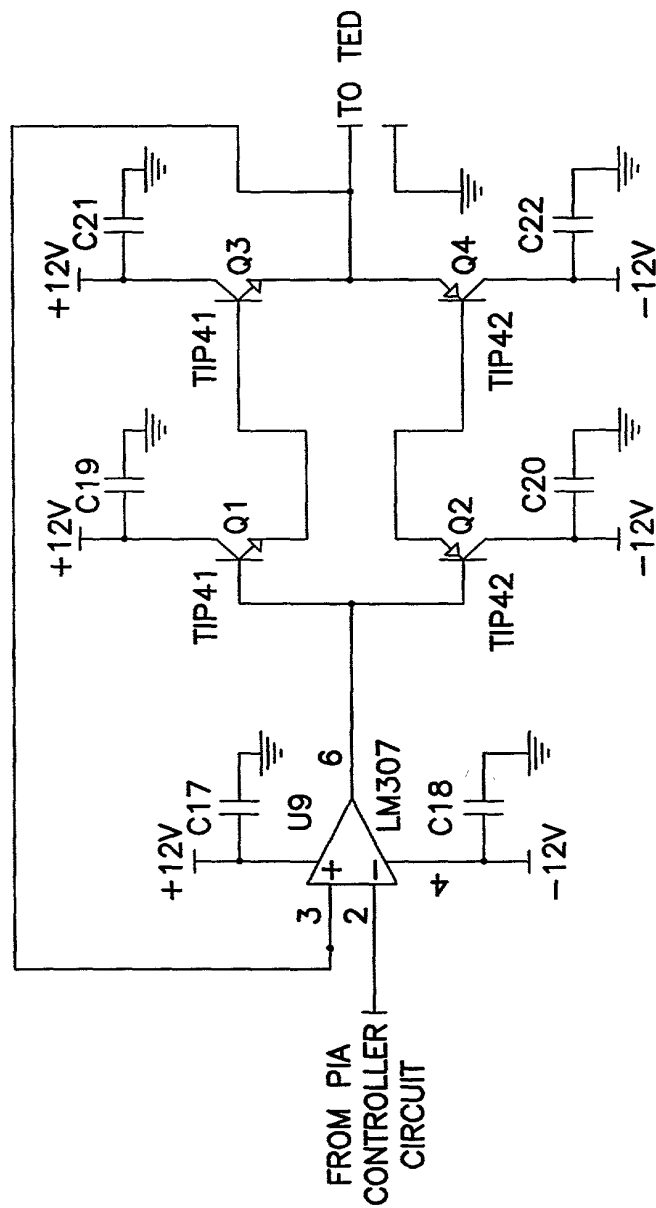


FIG. 19 (CONTINUED)

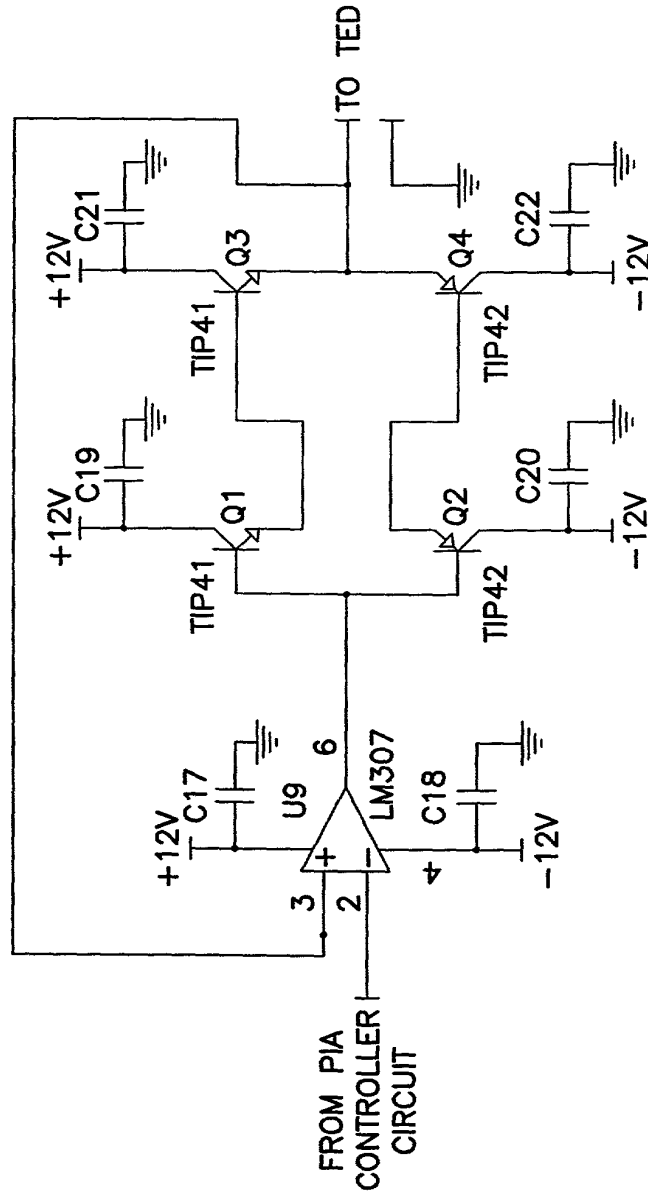
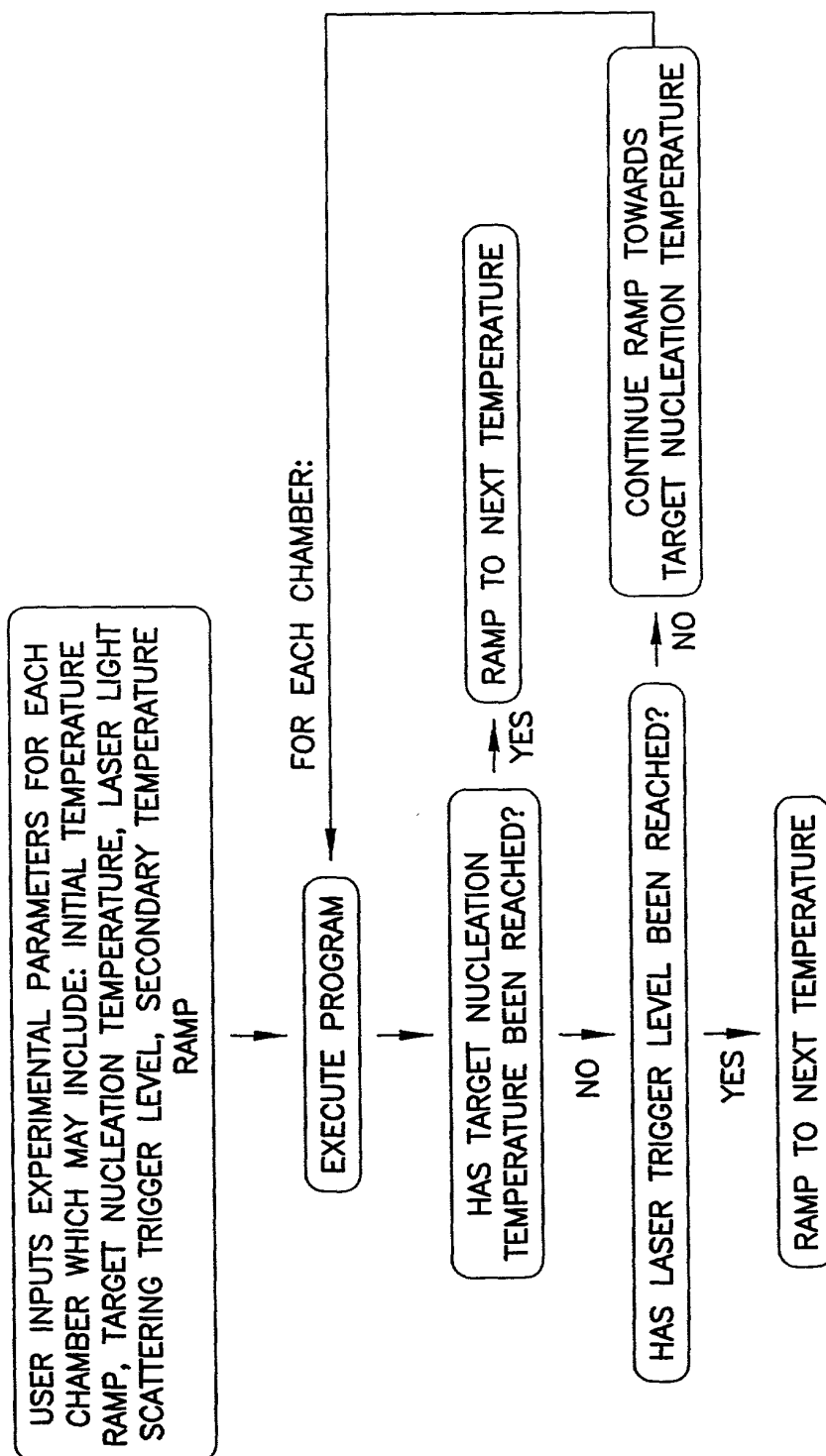
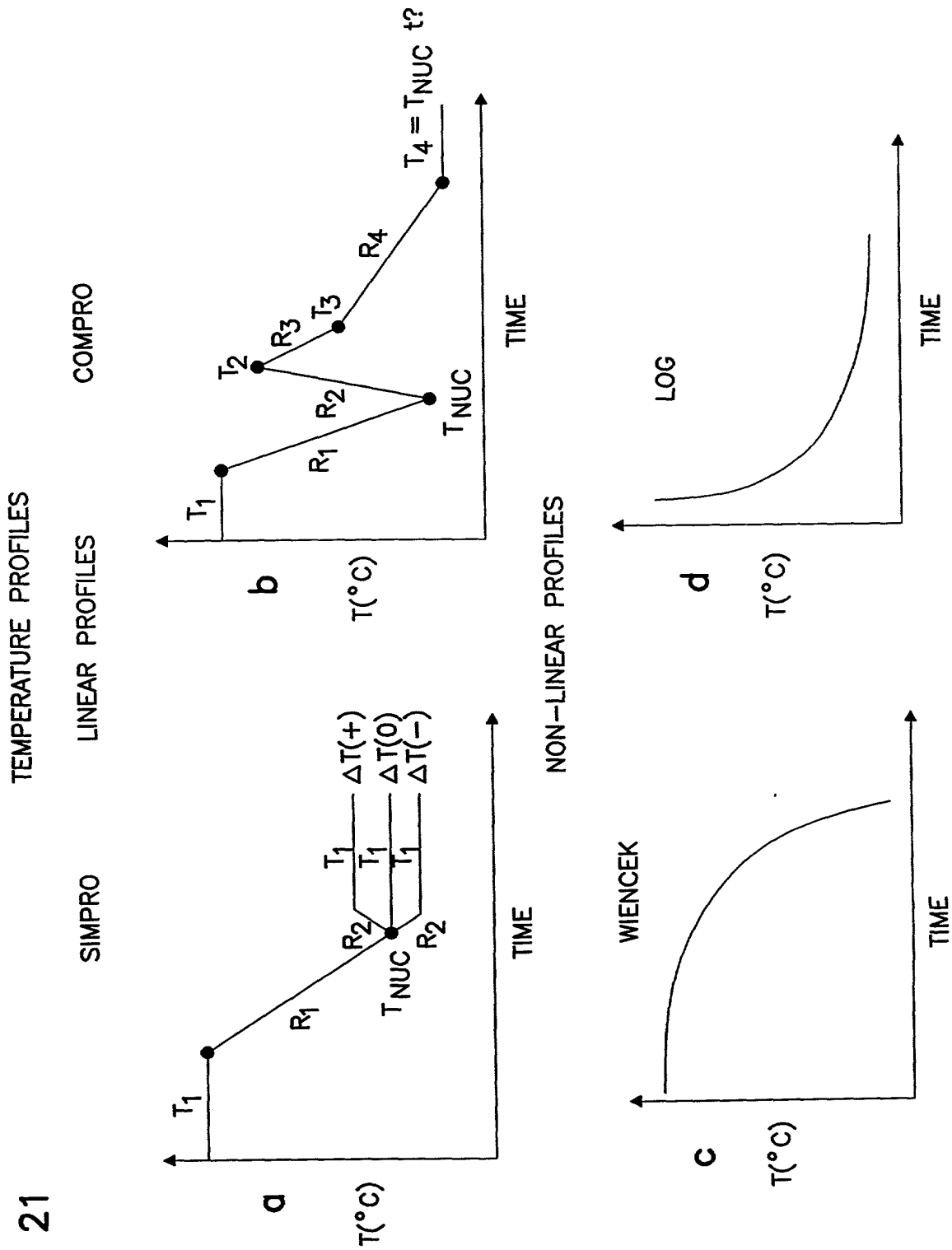


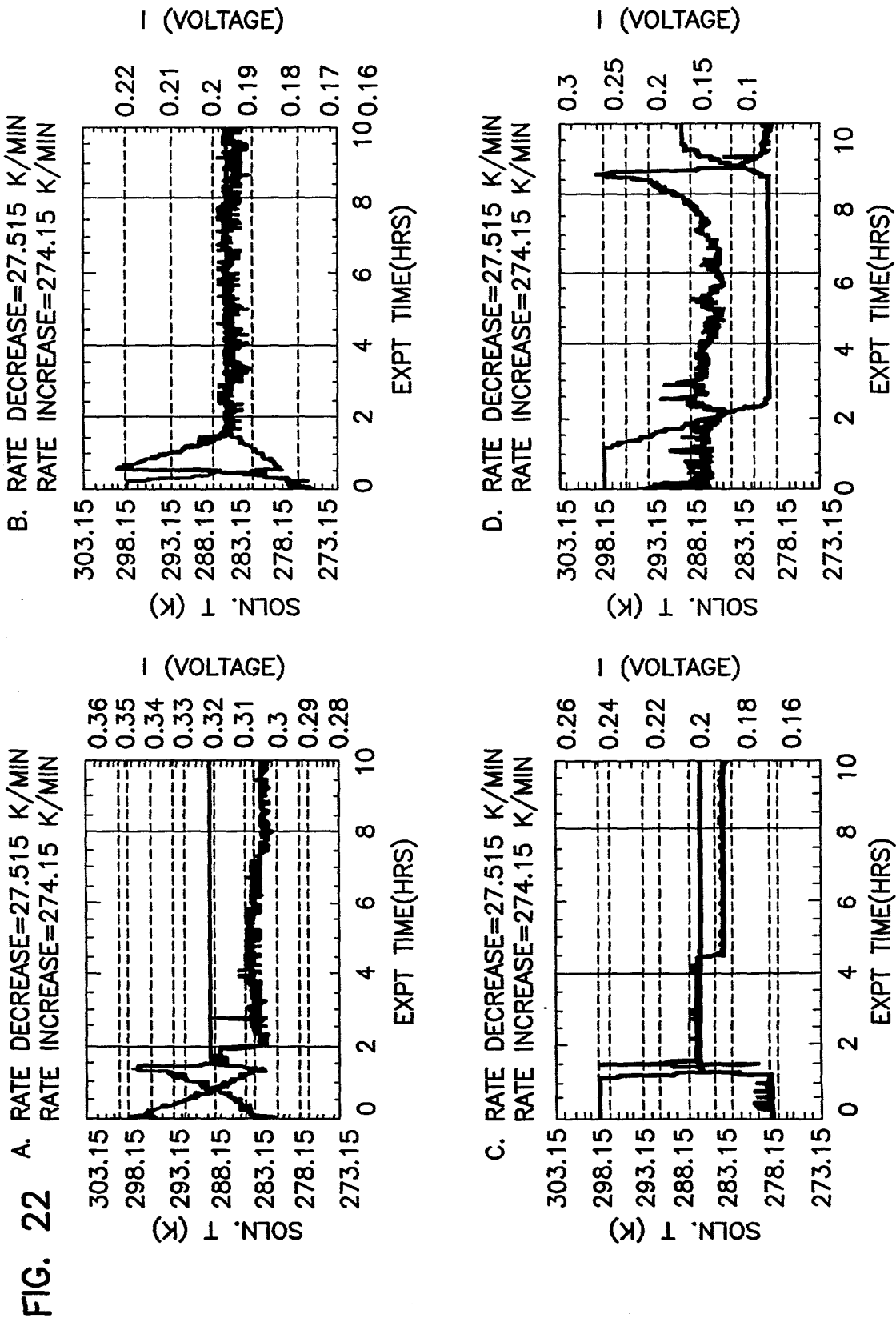
FIG. 20



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FIG. 21





PLOTS OF VOLTAGE AND TEMPERATURE VERSUS EXPERIMENT TIME
FOR LYSOZYME AGGREGATION.

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FIG. 24(a)

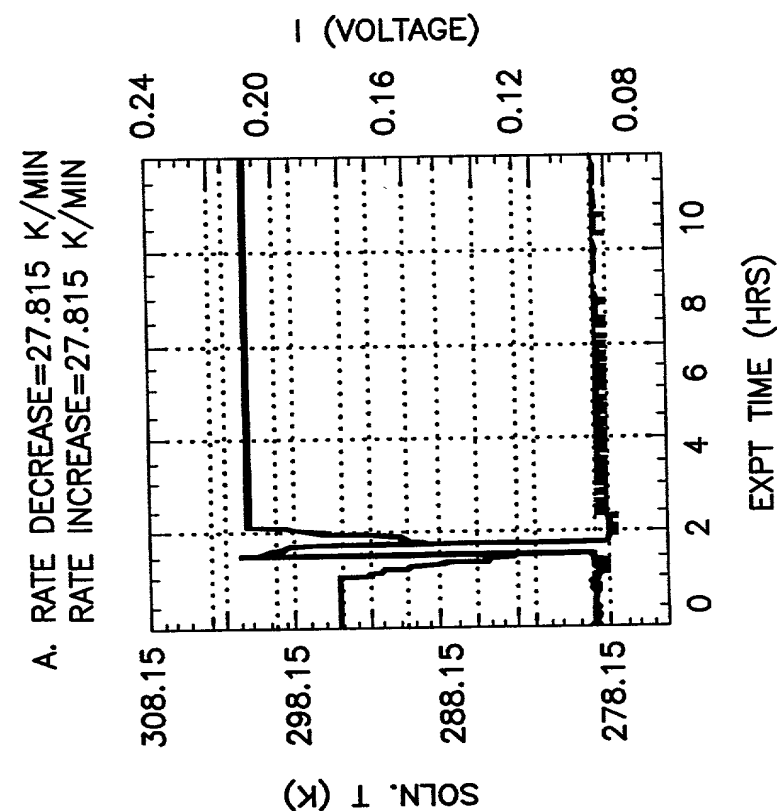
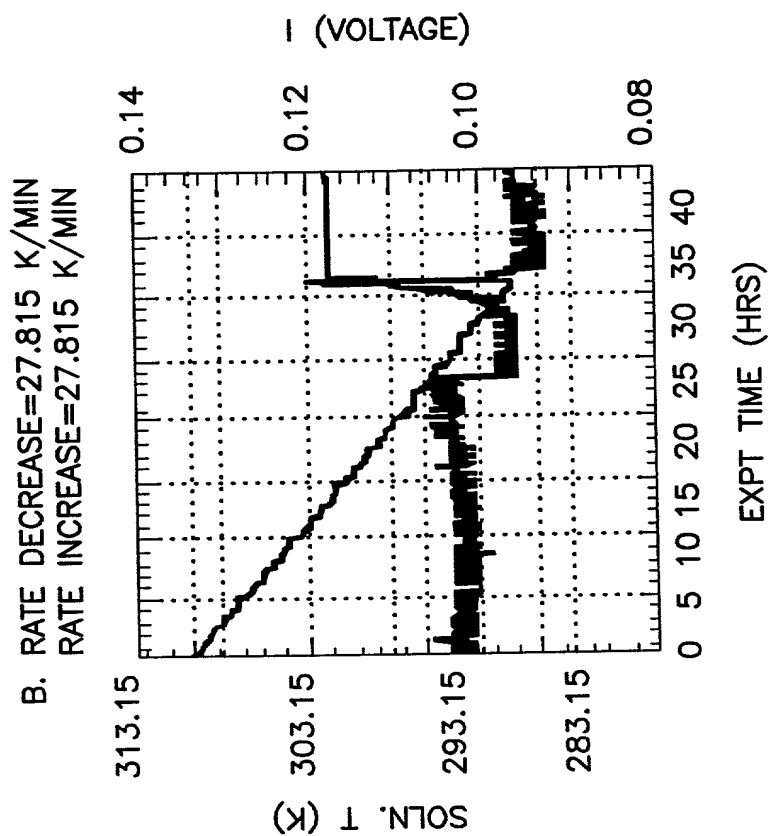


FIG. 24(b)



PLOTS OF VOLTAGE AND SOLUTION TEMPERATURE VERSUS EXPERIMENT
TIME FOR BOVINE INSULIN AGGREGATION.

FIG. 24(c)

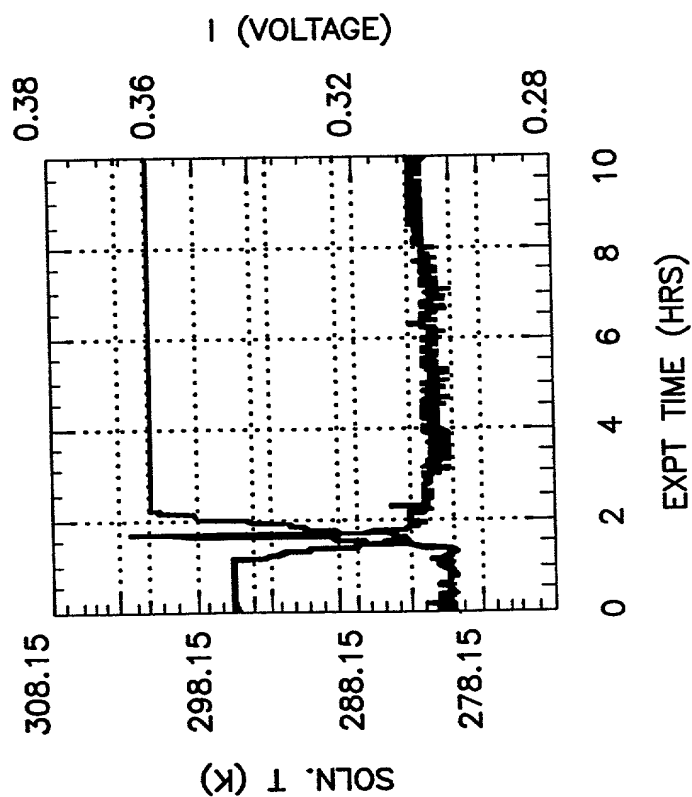
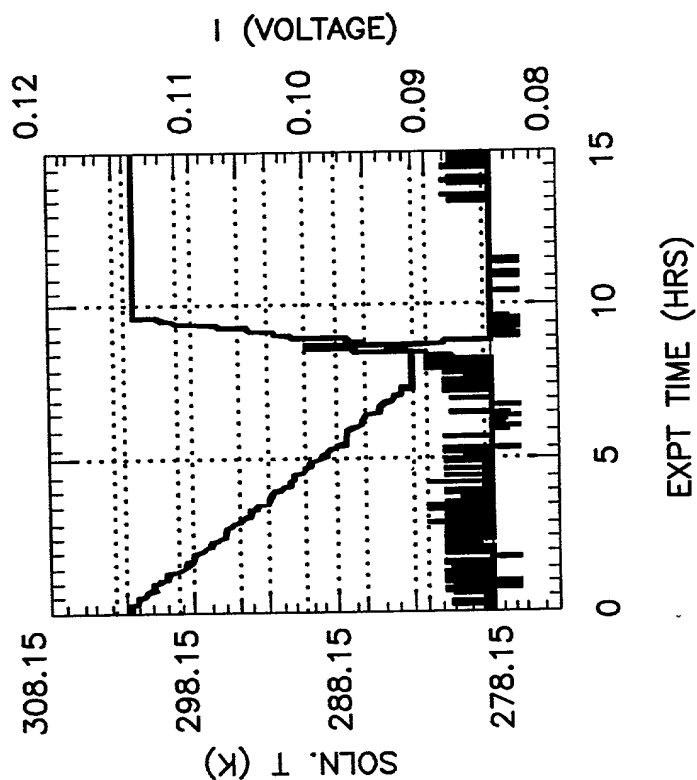


FIG. 24(d)



PLOTS OF VOLTAGE AND TEMPERATURE VERSUS EXPERIMENT
TIME FOR PORCINE INSULIN AGGREGATION.

FIG. 25

NEUROPHYSIN

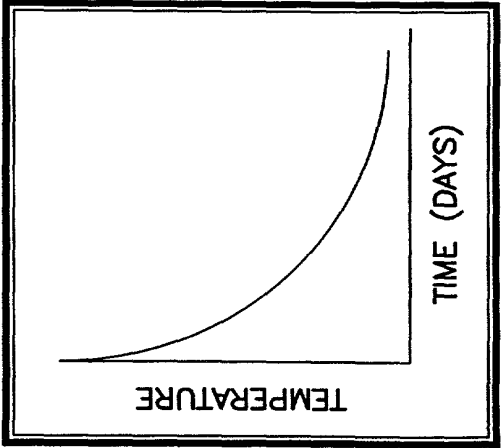
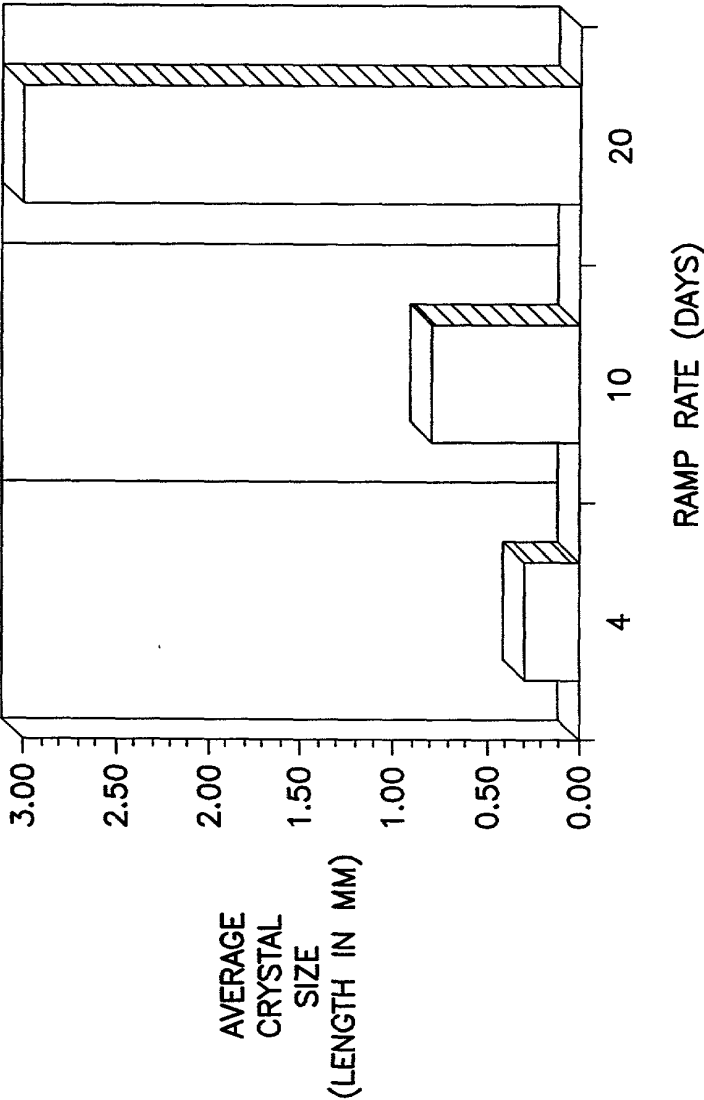
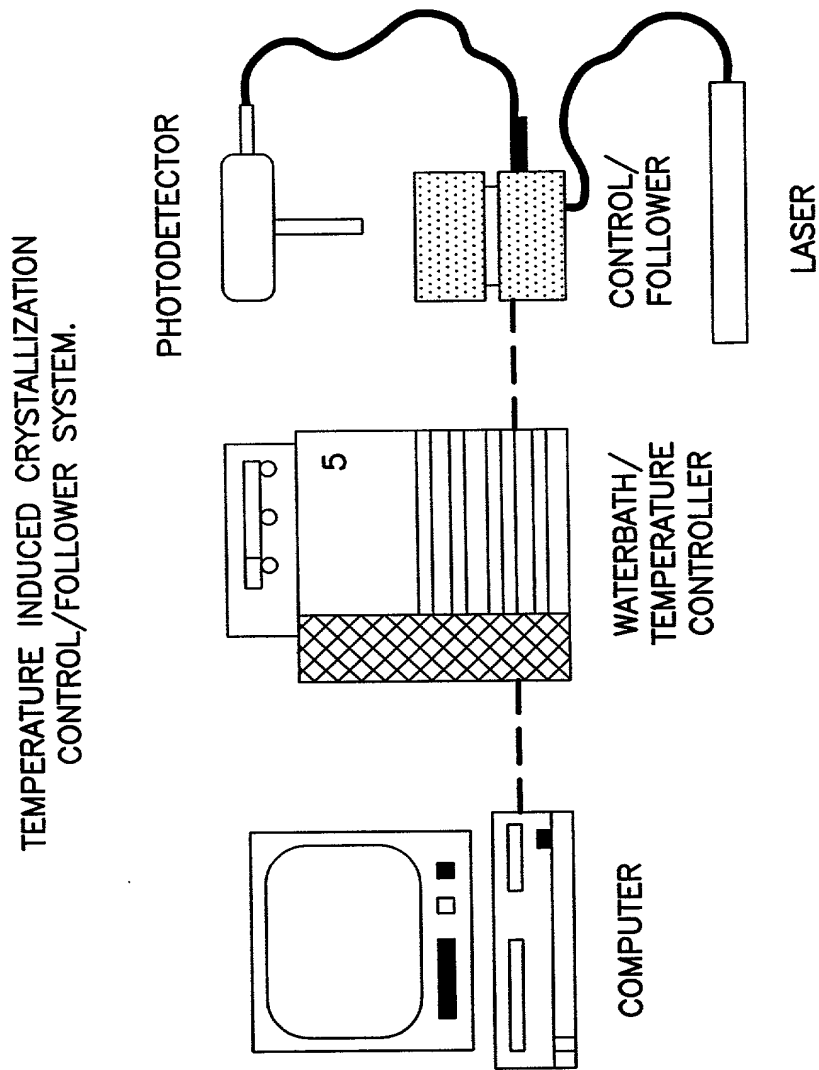
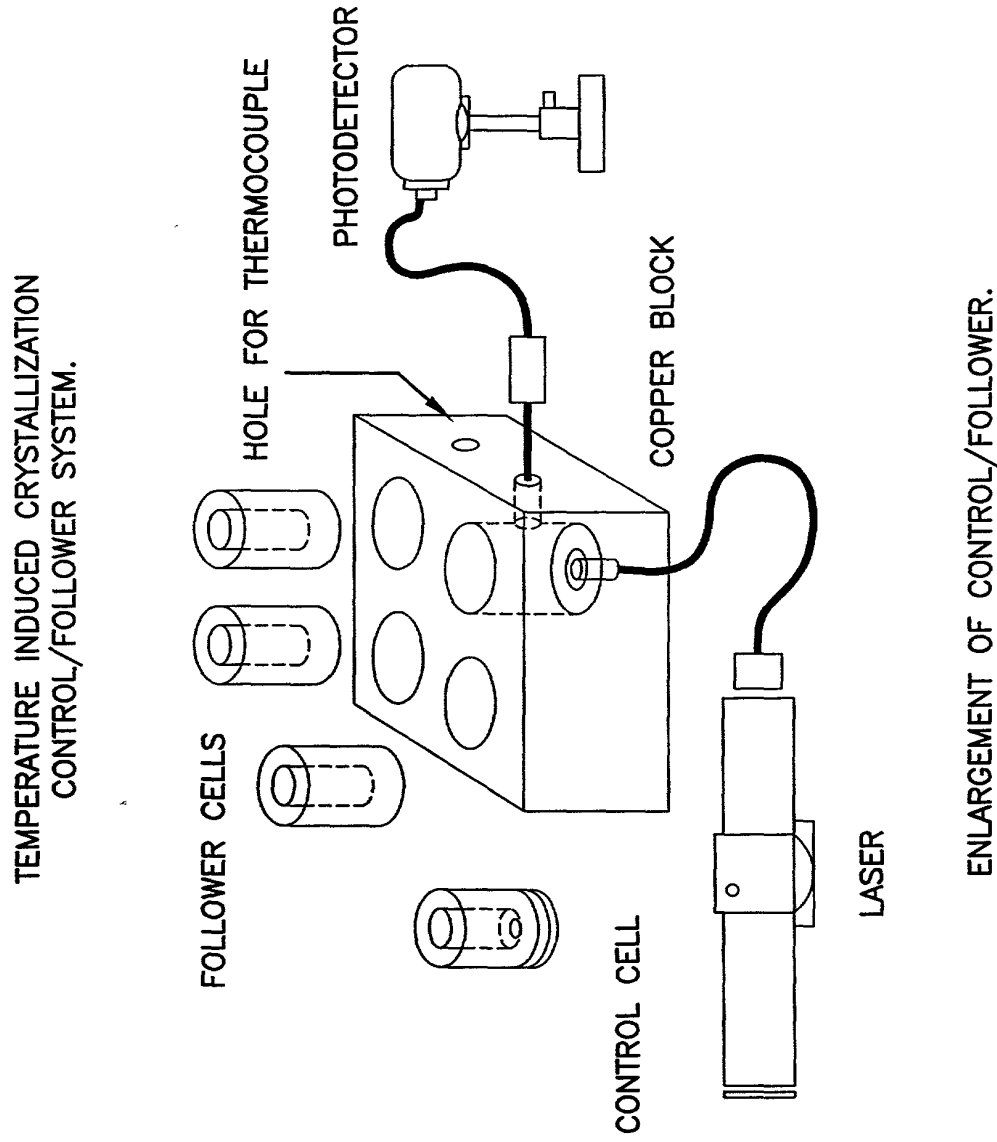


FIG. 26



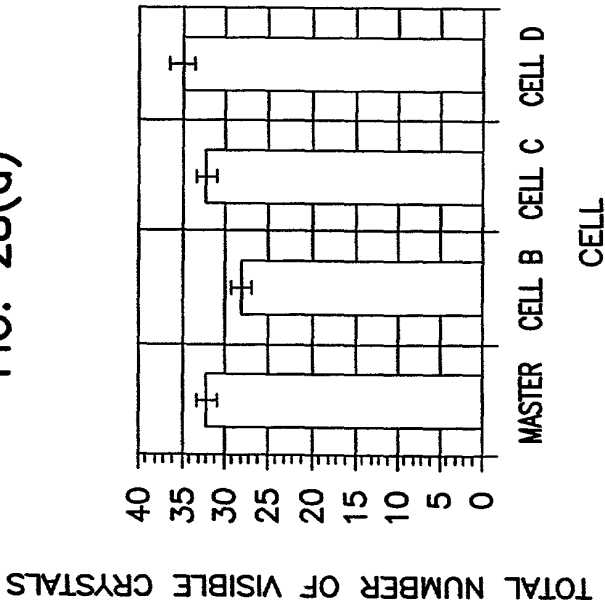
2092220 6 24 53 077

FIG. 27



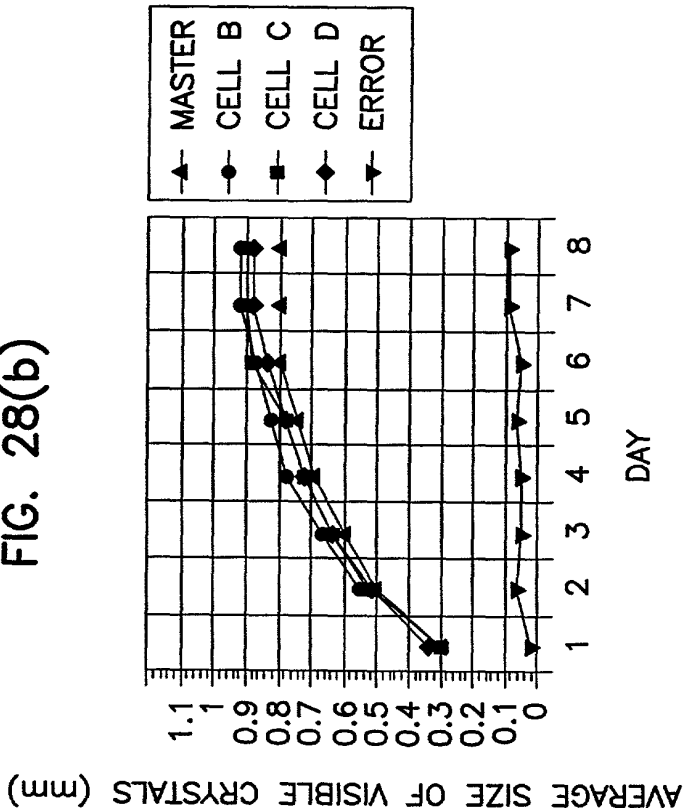
TEMPERATURE CONTROL/FOLLOWER RESULTS

FIG. 28(a)



CONTROL/FOLLOWER EXPERIMENT WITH
LYSOZYME PROTEIN. CONCENTRATION
IS 60 mg/ml WITH 2.0% NaCl.
TEMPERATURE RAMP RATE IS 0.5 °C/min.
GRAPH OF POPULATION IN INDIVIDUAL CELLS.

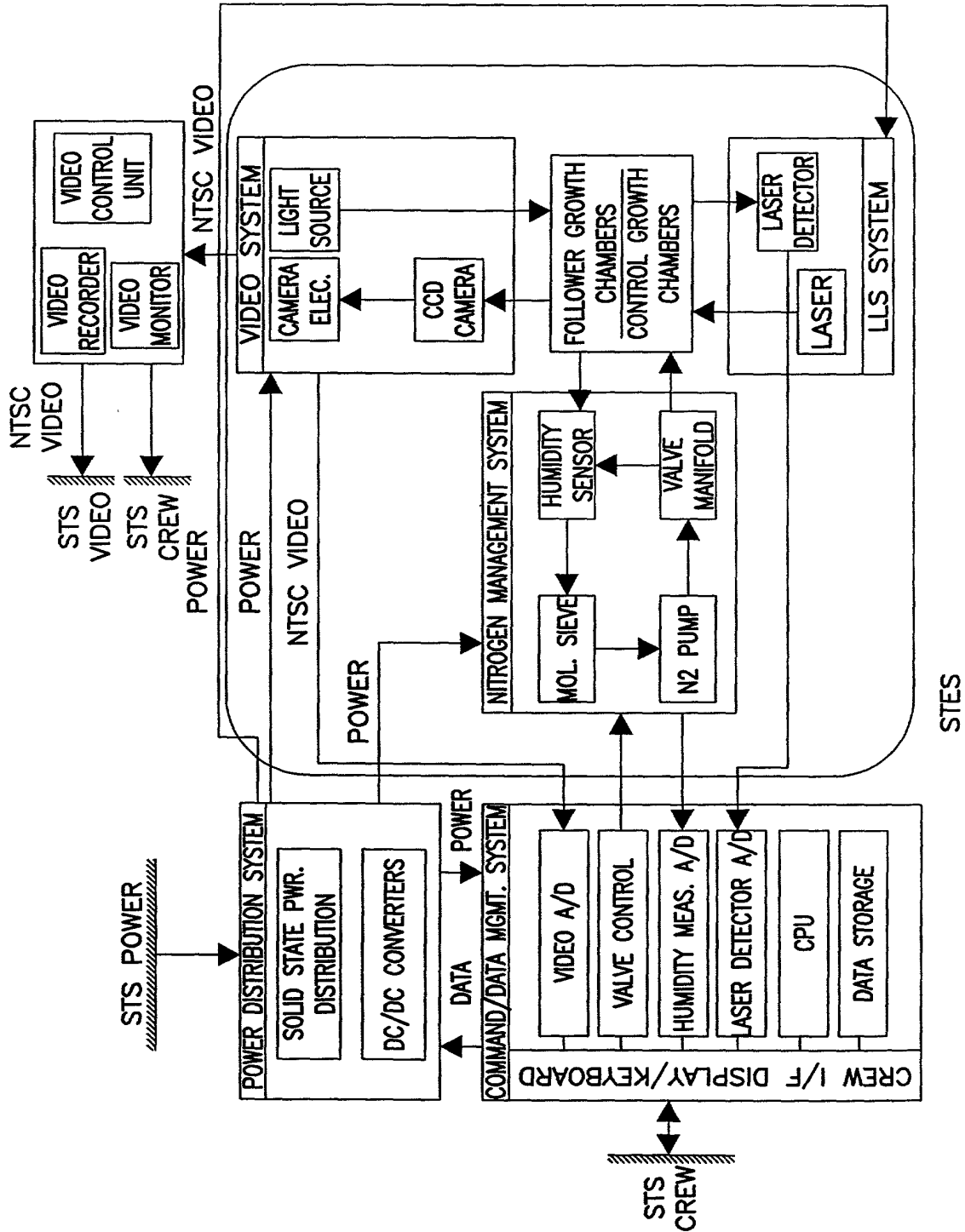
FIG. 28(b)



CONTROL/FOLLOWER EXPERIMENT WITH LYSOZYME
PROTEIN. CONCENTRATION IS 60 mg/ml WITH 2.0%
NaCl. TEMPERATURE RAMP RATE IS 0.5 °C/min.
PLOT OF GROWTH OF CRYSTALS VS. TIME.

DC/PCG-V SYSTEM INTERFACES

FIG. 29



DC/PCG-T SYSTEM INTERFACES

FIG. 30

